

AMENDMENTS TO THE SPECIFICATION

Replace paragraph 14 of the published application (U.S. Patent Application Publication No. 2007/0032795) with the following new paragraph:

The present invention is an embodiment of a device for accurate fixation positioning and localizing a patient's upper body for radio imaging, radio therapy, and radio surgery procedures. Radio surgery is a term for high precision radiation therapy, especially in the head and neck region. The purpose of the device is to fix a patient on a couch top of a tomotherapy radiation therapy machine, particularly the upper body of the patient on the couch top in a particular position, scan the patient to verify the location of that patient's anatomy, and then dynamically make adjustments to the desired treatment position. These adjustments are made in particular by a control device, interfaced with a feedback device for imaging and therapy applications. The device is used for the purpose of radio therapy or radio surgery but not necessarily on the delivery device, it could be used on the diagnostic portion of the device as well. The device will preferably have adjustment resolution quality assurance mechanisms in place to ensure structural and positional accuracy.

Replace paragraph 15 of the published application (U.S. Patent Application Publication No. 2007/0032795) with the following new paragraph:

The present invention provides a standard adaptable, head fixation, positioning, and adjustable device for precise, repeatable, verifiable localization of a patient's head, neck and upper torso for the purpose of radio imaging, radio therapy, and radio surgery procedures. The device may not necessarily be used on the delivery device of the tomotherapy radiation therapy machine, but could be used on the diagnostic portion of tomotherapy a radiation therapy machine. The device of the present invention may also be adaptable for use on CT, MRI, PET, or any other radiotherapy imaging machines.

Replace paragraph 20 of the published application (U.S. Patent Application Publication No. 2007/0032795) with the following new paragraph:

The One purpose of the device is to fix a patient on a couch, particularly the head and neck of the patient on the couch in a particular position, to scan the patient and verify the location of that patient's anatomy following a registration image, and then make an adjustment, if necessary, such that the position of the patient corresponds to the desired treatment position.